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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/896,246 06/29/2001		Ronald S. Kolessar	03382- P0043A 9192			
7590 10/05/2006			EXAMINER			
EUGENE L. FLANAGAN III COWAN, LIEBOWITZ & LATMAN, P.C.			YIMAM, HARUN M			
1133 AVENUE OF THE AMERICAS			ART UNIT	PAPER NUMBER		
NEW YORK, NY 10036-6799			2623	2623		

DATE MAILED: 10/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)				
		09/896,246		KOLESSAR, RONALD S.				
	Office Action Summary	Examiner		Art Unit				
		Harun M. Yiman	•	2623				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS CO 36(a). In no event, how vill apply and will expire , cause the application to	OMMUNICATION ever, may a reply be tim SIX (6) MONTHS from to become ABANDONED	ely filed the mailing date of this c O (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) filed on <u>07 Ju</u>	ılv 2006.		:				
	This action is FINAL . 2b) This action is non-final.							
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	x parte Quayle,	1935 C.D. 11, 45	3 O.G. 213.				
Disposit	ion of Claims			:				
4)⊠	Claim(s) 1-126 is/are pending in the application							
,	4a) Of the above claim(s) is/are withdraw							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) 1,2,5-23,26-49,52-82,85-95,99-105 as	<i>nd 108-126</i> is/ar	e rejected.	:				
7)⊠	Claim(s) 3,4,24,25,50,51,83,84,96-98,106 and	107 is/are object	ted to.	:				
8)[Claim(s) are subject to restriction and/o	r election require	ment.	•				
Applicat	ion Papers							
9)	The specification is objected to by the Examine	ır.						
•	The drawing(s) filed on is/are: a) acc		jected to by the E	Examiner.				
,—	Applicant may not request that any objection to the	· ·	•					
•	Replacement drawing sheet(s) including the correct	ion is required if th	e drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreign	priority under 35	5 U.S.C. § 119(a)	-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:			:				
	1. Certified copies of the priority documents			: 				
	2. Certified copies of the priority documents				Cto			
	 Copies of the certified copies of the prior application from the International Bureau 	•		id in inis National :	Stage			
* 5	See the attached detailed Office action for a list	•		d.				
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Attachmen				:				
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3) X Infor	mation Disclosure Statement(s) (PTO/SB/08)		Notice of Informal P					
Pape	er No(s)/Mail Date <u>07/07/2006</u> .	6) 🗀	Other:	:				

Note to Applicant

Art Units 2611, 2614 and 2617 have changed to 2623. Please make all future correspondence indicate the new designation 2623.

DETAILED ACTION

Response to Arguments

- 1. Applicants' arguments filed 07/07/06 with respect to claims 1-110 have been fully considered but are not persuasive.
- 2. Applicants' arguments filed 07/07/06 with respect to claims 111-126 have been fully considered but are moot in view of the new ground(s) of rejection.
- 3. In response to applicants' argument (page 5, 2nd paragraph) that all of the data processing in Lu occurs completely at the monitoring site, applicants should note that Lu explicitly discloses a central office apparatus (32 in figure 2) collects said data from a plurality of statistically selected households (column 12, lines 22-35). Lu further discloses that said data is **processed by the processor** i.e., the **remotely located processing system** (89 in figure 2).
- 4. In response to applicants' argument (page 5, 2nd paragraph) that Lu does not form a data set at the monitoring site (local site / household), applicants should note that Lu explicitly discloses that the sensors (48 in figure 2, which are located at the local site

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/ household) acquire at least portion of the program signals corresponding to the programs or stations selected by household members (column 7, line 65-67).

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- 5. In response to applicants' argument (page 5, 2nd paragraph) that Lu does not receive such a data set at the remote processing site applicants should note that Lu explicitly discloses a central office apparatus (32 in figure 2) collects said data from a plurality of statistically selected households (column 12, lines 22-35).
- 6. In response to applicants' argument (page 5, 2nd paragraph) that Lu does not process such a data set to detect the ancillary codes, applicants should note that Lu explicitly discloses the processing of said data for the purpose of ancillary code detection (column 10, lines 10-30 and column 12, lines 36-65).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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8. Claims 1, 8 – 14, 21, 22, 26, 30 – 34, 41, 48, 55 – 59, 66, 67, 74, 81, 85, 88, 91, 94, 101, 104 and 108 are rejected under 35 U.S.C. 102(e) as being anticipated by Lu et al (US 6,647,548).

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Regarding claims 1, 22, 41, 48, 67, 74, 81, 88, 91, 94, 101, 104, 111, 112, 120 and 121, Lu discloses a coded/non-coded program audience measurement method and system which determines the program being viewed by detecting ancillary codes received. Lu discloses receiving a program broadcast signal (see col. 6 lines 51 – 58), which includes ancillary codes (see col. 7 lines 10 – 20) for displaying reproducible images on television 24 (see fig 1). The media data, which includes television programming, can also include ancillary codes, but that not all the received media data includes ancillary codes (see col. 8 lines 44 – 60).

Lu further discloses the program media is received at the monitoring site and ancillary data is extracted from the signal. Lu discloses "<u>The sensors 48 are arranged</u> to acquire at least portions of the program signals corresponding to the programs or stations that household members select for viewing on the television 24. These portions of the program signals acquired by the sensors 48 are pre-processed, as desired, by the pre-processing circuit 50. The signal pre-processing circuit 50 supplies pre-processed program signals both to the ancillary code reader 52, which attempts to locate and read ancillary codes from the program signals....". It is noted that Lu

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discloses a monitoring device with an input to receive the media data and a first processor coupled to the monitoring device for performing the above functions.

Lu still further discloses storing and transmitting the data to a central office for processing. Lu discloses "The major function of the central office apparatus 32 is that of identifying viewed programs. For this purpose, the central office apparatus 32 retrieves all of the tuning records 90 from all of the statistically selected households 12." Lu further discloses "A block 110 determines whether the tuning records 90 from the statistically selected households 12 include ancillary codes in the code field 96. If the tuning records 90 from the statistically selected households 12 include ancillary codes in the code field 96, the ancillary codes are subjected to sanity processing by a block 12." It is noted that Lu discloses the first communications device for sending the data set to the remote central office and a second communication device at the office for receiving the data set

Thus, Lu discloses forming a data set comprising extracted ancillary codes for transmission from the user site to the remote central office via a public switched telephone network 42 (see col. 7 lines 1 – 5). It is noted that a data set for transmission via a telephone network must inherently be formed.

It is further noted that the central office processes (by a second processor) the ancillary codes, thus the transmitted data is such to sufficiently decode the ancillary codes for processing to determine the correlation of ancillary codes with the program records stored (see col. 13 lines 17 - 25).

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Furthermore, for newly added limitations in claims 111 (lines 12-14) and 120 (lines 10-13), Lu further discloses in an incorporated and commonly assigned reference (US 4,697,209) (column 3, lines 30-55, column 8, lines 33-35 and column 10, lines 51-58) that if ancillary codes are not detected in the data set, producing a signature characterizing the media data and matching the produced signature with a reference signature associated with identification data for the media data (column 3, lines 30-55).

As to claims 8, 9 and 117, Lu discloses the media data comprises audio and video data (see col. 6 lines 51 - 65).

As to claims 10, 30 and 55 Lu discloses a radio broadcast or audio cable transmissions for receiving the media data (see col. 6 lines 63 – 65) and thus discloses the claimed acoustic energy.

As to claims 11,12, 31, 32, 56, 57, 118 and 126, Lu discloses a fiber optic system for receiving the media data (see col. 6 lines 56 – 58) and thus discloses the claimed electromagnetic energy and light energy inherent to fiber optical communication systems.

As to claims 13, 33 and 58 Lu discloses detecting media from microphones and thus discloses magnetic energy (see col. 7 lines 32 – 55). It is noted that applicants disclose magnetic energy is associated with a speaker.

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Regarding claims 14, 34 and 59, Lu discloses receiving media data signals via coaxial cable and thus discloses electrical energy inherent to coaxial cable systems (see col. 6 lines 55 – 57).

Regarding claims 21, 26, 66, 85, 108 and 119, Lu discloses receiving media data in a portable monitoring device carry able on the person of a user (see col. 6 lines 18 – 22, col. 9 line 48 – col. 10 line 9).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 2, 5-7, 15 20, 27 29, 35 40, 42 47, 49, 52 54, 60 65, 68 73, 75 80, 82, 86, 87, 89, 90, 92, 93, 95, 99, 100, 102, 103, 105, 109 and 110 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lu (6,647,548).

Regarding claims 20, 40, 47, 65, 73 and 80 Lu discloses "...it will be understood that program signals can be transmitted and/or distributed by a wide variety

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<u>of means</u>..." (see col. 6 lines 55 – 60) but Lu fails to disclose detecting a spread spectrum code as the ancillary code.

Official Notice is taken it would have been well known to transmit media data via spread spectrum code to enable transmission over a wireless communication medium. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Lu to include the claimed limitation to provide communication over a wireless network.

Regarding claims 2, 15, 23, 35, 42, 49, 60, 68, 75, 82, 86, 89, 92, 95, 99, 102, 105, 109, 113 and 122, Lu discloses transmitting a portion of the media data received to the central office by transmitting a data set via a public switched telephone network but fails to disclose transforming the data into frequency-domain data. Official Notice is taken that it would have been well known to frequency division multiplex data by transforming the data into frequency-domain data for the benefit of maximizing bandwidth efficiency. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Lu to include transforming, transmitting, receiving and processing the media data or ancillary codes in the frequency domain for the benefit of maximizing bandwidth efficiency.

Regarding claims 5, 27, 52, 114 and 123, Lu discloses transmitting a portion of the media data received to the central office by transmitting a data set via a public switched telephone network but fails to disclose transforming the data into time domain

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information. Official Notice is taken that it would have been well known to time division multiplex by transforming the data into time domain data for the benefit of maximizing bandwidth efficiency. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Lu to include transforming, transmitting, receiving and processing the media data or ancillary codes in the time domain for the benefit of maximizing bandwidth efficiency.

As to claims 6, 28, 53, 115 and 124, Lu discloses the data set is a subset of the media data, and as discussed above, it would have been obvious to modify Lu to include transforming the data into the time domain. Necessarily, since the data set is smaller than the media data, it inherently has a frequency range narrower than that of the media data.

Regarding claims 7, 29, 54, 116 and 125, Lu fails to disclose wherein the data set comprises data representing phase information.

Official Notice is hereby taken transmitting data as phase information would have been known to maximize transmission and / or bandwidth efficiency. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Lu to include the claimed limitation for the benefit of maximizing transmission and / or bandwidth efficiency.

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As to claims 16, 36, 43, 61, 69, 76, 87, 90, 93, 100, 103 and 110, as discussed above, it would have been obvious to modify Lu to convert, transmit, receive and process data in the frequency domain. Necessarily, the frequency-domain data would have been processed to detect components of the ancillary codes at predetermined frequencies.

Regarding claims 17, 37, 44, 62, 70 and 77 fails to disclose wherein the frequency-domain data or ancillary data is distributed according to a frequency-hopping pattern. Official Notice it would have been well known to distribute data via a frequency-hopping pattern to provide a wireless communication system, which maximizes the efficiency of the available bandwidth. For example, in the telecommunications art, it would have been notoriously well known to transmit cellular telephonic data using a frequency hopping technique. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Lu to include the claimed frequency-hopping pattern for the benefit of having a wireless communication system, which maximizes the efficiency of the bandwidth available.

Regarding claims 18, 19, 38, 39, 45, 46, 63, 64, 71, 72, 78 and 79 fails to disclose wherein the code components comprise pairs of frequency components modified in amplitude to encode information and fails to disclose wherein the code components comprise pairs of frequency components modified in phase to encode information.

Official Notice is hereby taken it would have been well known modify pairs of frequency components in amplitude or phase to encode information for the benefit of maximizing transmission efficiency and/or bandwidth efficiency. Therefore, it would have been able to one having ordinary skill in the art at the time the invention was made to modify Lu to include modify pairs of frequency components in amplitude or phase to encode information for the benefit of maximizing transmission efficiency and/or bandwidth efficiency.

Allowable Subject Matter

11. Claims 3, 4, 24, 25, 50, 51, 83, 84, 96, 97, 98, 106, and 107 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harun M. Yimam whose telephone number is 571-272-7260. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on 571-272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HMY

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